computer 50 and connected to a display window 45 via the computer system 12 running under an operating system 43, to an SPS (a programmable logic controller) program 49, which may run under a real time operating system 47, a processor 51 and a main memory 53. A programming environment 41, not necessarily integrated in computer 50, also runs under operating system 43.--.

## In the claims:

Please amend the claims as follows:

1. (Twice Amended) A safety device for a stored-program control, comprising:

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the controller exchanging data, via a bus system, with a peripheral to be controlled; and

a memory for storing safety-relevant data of the stored-program control, the safety-relevant data being accessible by the controller.

8. (Twice Amended) A safety device for a stored-program control, comprising:

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the controller exchanging data, via a bus system, with a peripheral to be controlled; and

a monitor for monitoring a wake-up signal generated by the stored-program control and transmitted to the monitor by the controller.

13. (Twice Amended) A safety device for a stored-program control, comprising:

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the controller, exchanging data, via a bus system, with a